

Geary County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/26/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 15 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Geary County economy.¹

These 15 sectors have a total direct output of approximately \$56.5 million and support 416.7 jobs in Geary County. Running the model for all 15 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Geary County Economy								
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product		
Direct Effect	416.7	1.17%	\$21,334,562	0.66%	\$56,541,440	1.75%		
Indirect Effect	70.3	0.20%	\$4,283,620	0.13%	\$7,672,774	0.24%		
Induced Effect	22.2	0.06%	\$1,355,859	0.04%	\$2,835,826	0.09%		
Total Effect	509.2	1.43%	\$26,974,042	0.83%	\$67,050,040	2.07%		

As shown in the above table, agriculture, food, and food processing sectors support **509.2 jobs**, or **1.43%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$67.1** million, roughly **2.07%** of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 15 agriculture, food, and food processing sectors is approximately \$27.0 million, or 0.83% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 0.83% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **156.4 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Geary County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	156.4	\$18,822,205		
Landscape and horticultural services	111.7	\$8,038,053		
Veterinary services	45.3	\$4,061,949		
All other crop farming	33.1	\$2,495,801		
Support activities for agriculture and forestry	30.0	\$574,509		
Grain farming	20.8	\$7,589,351		
Bread and bakery product, except frozen, manufacturing	15.7	\$3,389,312		
Animal production, except cattle and poultry and eggs	15.4	\$1,964,907		
Wholesale trade	11.6	\$2,448,777		
Dairy cattle and milk production	11.4	\$3,857,679		

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately \$18.8 million to the Geary County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	156.4	\$18,822,205		
Landscape and horticultural services	111.7	\$8,038,053		
Grain farming	20.8	\$7,589,351		
Oilseed farming	5.4	\$6,024,754		
Veterinary services	45.3	\$4,061,949		
Dairy cattle and milk production	11.4	\$3,857,679		
Bread and bakery product, except frozen, manufacturing	15.7	\$3,389,312		
All other crop farming	33.1	\$2,495,801		
Wholesale trade	11.6	\$2,448,777		
Real estate	7.1	\$2,313,441		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Geary County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	5.4	\$6,024,753.57		
Grain farming	20.8	\$7,589,350.70		
Vegetable and melon farming	0.1	\$13,640.09		
Fruit farming	0.4	\$33,756.01		
Tree nut farming	0.0	\$23.56		
Greenhouse, nursery, and floriculture production	0.0	\$31.91		
All other crop farming	33.1	\$2,495,801.21		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	156.4	\$18,822,204.59		
Dairy cattle and milk production	11.4	\$3,857,678.89		
Poultry and egg production	0.1	\$110,668.55		
Animal production, except cattle and poultry and eggs	15.4	\$1,964,906.69		
Bread and bakery product, except frozen, manufacturing	15.7	\$3,389,311.55		
Frozen cakes and other pastries manufacturing	0.9	\$139,309.15		
Veterinary services	45.3	\$4,061,948.78		
Landscape and horticultural services	111.7	\$8,038,052.56		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Geary County, the retail sector was omitted.